

**FAURECIA SYSTEMES D'ECHAPPEMENT****Method and device for attenuating the noise generated at the outlet of an exhaust line****ABSTRACT OF THE TECHNICAL CONTENT OF THE INVENTION**

The method for attenuating the low-frequency noise generated at the outlet (18) of an exhaust line (14) involves:

- defining a signal representing the noise to be attenuated,
- emitting a first high-frequency sound wave (F1) from a first transducer (22) into an attenuation zone (26) of the exhaust line (14), which first sound wave has a carrier frequency of higher than 50 kHz, and
- emitting a second high-frequency sound wave ( $F1 + \Delta f_{cb}$ ) from a second transducer (24) into the attenuation zone (26) of the exhaust line, which second sound wave has as its carrier frequency the carrier frequency of the first high-frequency sound wave (F1) and contains a low-frequency counter-noise signal ( $\Delta f_{cb}$ ), which is in opposition of phase to the signal representing the noise to be attenuated.

Fig. 1